Learning to Fly: The Wright Brother's Adventure						
1997 Mathematics Learning Standards						
Grades 6-8						
Activity/Lesson	State	Standards				
			Apply the concepts and attributes of length,			
.			capacity, weight/mass, perimeter, area,			
Wright Brothers:			volume, time, temperature and angle			
1900 Glider	IL	MA.6-8.7.A.3b	measures in practical situations.			
<u>-</u>			Compute distances, lengths and measures			
Wright Brothers:			of angles using proportions, the Pythagorean			
1900 Glider	IL	MA.6-8.9.D.3	theorem and its converse.			
			Apply the concepts and attributes of length,			
M. 1. B. d			capacity, weight/mass, perimeter, area,			
Wright Brothers:			volume, time, temperature and angle			
1901 Glider	IL	MA.6-8.7.A.3b	measures in practical situations.			
			Apply the concepts and attributes of length,			
M.S.L.D.d.			capacity, weight/mass, perimeter, area,			
Wright Brothers:		MA C O 7 A OL	volume, time, temperature and angle			
1902 Glider	IL	MA.6-8.7.A.3b	measures in practical situations.			
Mriaht Drothoro			Select and apply instruments including rulers			
Wright Brothers: 1902 Glider	IL	MACOZDO	and protractors and units of measure to the			
1902 Gilder	IL .	MA.6-8.7.B.3	degree of accuracy required.			
			Apply the concepts and attributes of length,			
Wright Prothoro			capacity, weight/mass, perimeter, area,			
Wright Brothers: 1903 Flyer	IL	MA.6-8.7.A.3b	volume, time, temperature and angle measures in practical situations.			
1903 Flyel	IL .	IVIA.0-0.7.A.30	Use concepts of symmetry, congruency,			
			similarity, scale, perspective, and angles to			
			describe and analyze two- and three-			
			dimensional shapes found in practical			
			applications (e.g., geodesic domes, A-frame			
			houses, basketball courts, inclined planes,			
1900: Kitty Hawks	IL	MA.6-8.9.A.3c	art forms, blueprints).			
1000. Tally Hawko		1717 (1.0 0.0.3) (1.00	Apply the concepts and attributes of length,			
			capacity, weight/mass, perimeter, area,			
1901: The First			volume, time, temperature and angle			
Improvement	IL	MA.6-8.7.A.3b	measures in practical situations.			
			Apply the concepts and attributes of length,			
			capacity, weight/mass, perimeter, area,			
			volume, time, temperature and angle			
New Data	IL	MA.6-8.7.A.3b	measures in practical situations.			
			Represent fractions, decimals, percentages,			
1902: Success at			exponents and scientific notation in			
Last	IL	MA.6-8.6.A.3	equivalent forms.			
			Select computational procedures and solve			
1902: Success at			problems with whole numbers, fractions,			
Last	IL	MA.6-8.6.C.3a	decimals, percents and proportions.			

		Chay avidence that computational regults
		Show evidence that computational results
		using whole numbers, fractions, decimals,
		percents and proportions are correct and/or
IL	MA.6-8.6.C.3b	that estimates are reasonable.
		Apply the concepts and attributes of length,
		capacity, weight/mass, perimeter, area,
		volume, time, temperature and angle
IL	MA.6-8.7.A.3b	measures in practical situations.
		Compute distances, lengths and measures
		of angles using proportions, the Pythagorean
IL	MA.6-8.9.D.3	theorem and its converse.
 		Construct, read and interpret tables, graphs
	MA 6-	(including circle graphs) and charts to
lu .		organize and represent data.
	0.10.A.3a	organize and represent data.
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Learning to F		
	Learning Stand	arus
<u>s</u>		
01-1-	01	
State		
		Interpret scale drawings and models using
IL	10.7.C.4b	maps and blueprints.
		Estimate and measure the magnitude and directions of physical quantities (e.g., velocity, force, slope) using rulers, protractors and other scientific instruments
lii	MA 0 10 7 D 4	including timers, calculators and computers.
L	IVIA.9-10.7.D.4	
IL	MA.9- 10.7.C.4a	Make indirect measurements, including heights and distances, using proportions (e.g., finding the height of a tower by its shadow).
	MA 0 40 8 D 4	Formulate and solve linear and quadratic equations and linear inequalities algebraically and investigate nonlinear inequalities using graphs, tables, calculators
	IVIA.9-10.8.D.4	and computers.
		Solve problems involving recipes or
		mixtures, financial calculations and
		geometric similarity using ratios, proportions
IL	MA.9-10.6.D.4	and percents.
		Apply units and scales to describe and
	MA.9-	compare numerical data and physical
IL	10.7.A.4a	objects.
	MA.9-	Apply formulas in a wide variety of theoretical and practical real-world measurement applications involving perimeter, area, volume, angle, time, temperature, mass, speed, distance, density and monetary
IL	10.7.A.4b	values.
	Learning to F S State IL IL IL IL IL	IL MA.6-8.7.A.3b IL MA.6-8.9.D.3 MA.6-8.10.A.3a Learning to Fly: The Wright B

			Make indirect measurements, including
			heights and distances, using proportions
1902: Success at		MA.9-	(e.g., finding the height of a tower by its
Last	IL.	10.7.C.4a	shadow).
Last		10.7.0.44	Apply units and scales to describe and
1903: Powered		MA.9-	compare numerical data and physical
Flight	IL.	10.7.A.4a	objects.
i iigiit		10.7.7.10	Apply formulas in a wide variety of theoretical
			and practical real-world measurement
			applications involving perimeter, area,
			volume, angle, time, temperature, mass,
1903: Powered		MA.9-	speed, distance, density and monetary
Flight	lıL	10.7.A.4b	values.
g		10.7.7.1.10	values:
			Estimate and measure the magnitude and
			directions of physical quantities (e.g.,
			velocity, force, slope) using rulers,
1903: Powered			protractors and other scientific instruments
Flight	IL	MA.9-10.7.B.4	including timers, calculators and computers.
			Make indirect measurements, including
			heights and distances, using proportions
1903: Powered		MA.9-	(e.g., finding the height of a tower by its
Flight	IL	10.7.C.4a	shadow).
			Represent algebraic concepts with physical
			materials, words, diagrams, tables, graphs,
1903: Powered		MA.9-	equations and inequalities and use
Flight	IL	10.8.B.4a	appropriate technology.
			Formulate and solve linear and quadratic
			equations and linear inequalities
			algebraically and investigate nonlinear
1903: Powered			inequalities using graphs, tables, calculators
Flight	IL	MA.9-10.8.D.4	and computers.
			Represent and organize data by creating
1903: Powered		MA.9-	lists, charts, tables, frequency distributions,
Flight	IL	10.10.A.4a	graphs, scatterplots and box-plots.